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126690 U.S. PTO

**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No.	I2G01 9297.99239
First Inventor or Application Identifier	Sam Johnson et al.
Title	A SYSTEM FOR AND METHOD OF IMPLEMENTING A CLOSED LOOP RESPONSE ARCHITECTURE FOR ELECTRONIC COMMERCE
Express Mail Label No.	EM1382155061US

**APPLICATION ELEMENTS**  
See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO: Assistant Commissioner for Patents  
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1. ☒ • Fee Transmittal Form (e.g., PTO/SB/17)  
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2. ☒ Specification [Total Pages 54]  
(preferred arrangement set forth below)
  - Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed. Sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 6]
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  - a. ☒ Newly executed (original or copy)
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Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b)

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission (if application, all necessary)
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**ACCOMPANYING APPLICATION PARTS**

7. ☒ Assignment Papers (cover sheets & documents))
8. ☐ 37 C.F.R. § 3.73(b) Statement ☐ Power of (when there is an assignee) ☐ Attorney
9. ☐ English Translation Document (if applicable)
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11. ☐ Preliminary Amendment
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6. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment.  
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**STATEMENT CLAIMING SMALL ENTITY STATUS  
(37 CFR 1.9(f) & 1.27(c)) SMALL BUSINESS CONCERN**Docket Number I2GO1  
9297.99239Applicant, Patentee, or Identifier: Sam JOHNSON et al.Application or Patent No.: UnassignedFiled or Issued: Concurrently herewithTitle A SYSTEM FOR AND METHOD OF IMPLEMENTING A CLOSED LOOP RESPONSE  
ARCHITECTURE FOR ELECTRONIC COMMERCE

I hereby state that I am

- ☐ the owner of the small business concern identified below;  
☒ an official of the small business concern empowered to act on behalf of the concern identified below;

NAME OF SMALL BUSINESS CONCERN i2Go.com, LLCADDRESS OF SMALL BUSINESS CONCERN 41 Perimeter Center East, Suite 660, Atlanta, Georgia  
30346

I hereby state that the above identified small business concern qualifies as a small business concern as defined in 13 CFR Part 121 for purposes of paying reduced fees to the United States Patent and Trademark Office. Questions related to size standards for a small business concern may be directed to: Small Business Administration, Size Standards Staff, 409 Third Street, SW, Washington, DC 20416.

- ☒ the application filed herewith with title as listed above,  
☐ the application identified above.  
☐ the patent identified above.

If the rights held by the above identified small business concern are not exclusive, each individual, concern, or organization having rights in the invention must file separate statements as to their status as small entities, and no rights to the invention are held by any person, other than the inventor, who would not qualify as an independent inventor under 37 CFR 1.9(c) if that person made the invention, or by any concern which would not qualify as a small business concern under 37 CFR 1.9(d), or a nonprofit organization under 37 CFR 1.9(e).

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NAME OF PERSON SIGNING Sam JohnsonTITLE OF PERSON IF OTHER THAN OWNER PresidentADDRESS OF PERSON SIGNING 41 Perimeter Center East, Suite 660, Atlanta, Georgia 30346SIGNATURE DATE 8/12/99

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5                   **A SYSTEM FOR AND METHOD OF IMPLEMENTING  
                      A CLOSED LOOP RESPONSE ARCHITECTURE  
                      FOR ELECTRONIC COMMERCE**

RELATED APPLICATIONS

10               This application is related to US Application Serial No. \_\_\_\_/\_\_\_\_\_,  
entitled " INTERACTIVE AUDIO AND DATA PLAYER FOR DELIVERY  
OF SELECTED CONTENT TO A MOBILE USER AND OBTAINING A  
RESPONSE THEREFROM", filed on August 12, 1999 and commonly  
assigned to i2Go.com, LLC the assignee of the present application.

TECHNICAL FIELD

15               The present invention relates to electronic commerce and, more  
particularly to a system, a method, and a device that enables the provision of  
feedback pertaining to received information and advertisements to initiate  
electronic commerce transactions.

BACKGROUND OF THE INVENTION

20               The Internet provides extensive and global access to information and  
opportunities for electronic commerce that did not exist just a few years ago.  
Until recently, access to the Internet was limited to those computers having  
access to a communication link, such as a telephone line, an ADSL connection,  
a cable modem or a T1 line. Thus, access to information through the Internet  
25               was restricted to locations that were in close proximity to such a  
communication link - typically the home or the office.

Recent advances in wireless technology expand the ability to access information over the Internet beyond the confines of the home or office. However, most of the present techniques employed to expand this access are inadequate or inefficient in the ability to deliver Internet based information.

5 One technique of providing wireless access to the Internet is through use of cellular capable modems coupled to cellular telephones. However, wireless access to the Internet through the use of a cellular capable modem is slow, clumsy and unreliable. Another technique of providing wireless access to the Internet is through a wireless modem. However, the use of a wireless modem is  
10 inefficient due to the high expense associated with the hardware, and the fees levied by carriers, such as the monthly service charge and the fees assessed for downloading content. Furthermore, accessing the Internet using any of the aforementioned techniques ties up communications facilities and resources that may be required by a user for other purposes and is inconvenient, or even  
15 dangerous, for a user that is occupied with other tasks, such as driving an automobile, operating machinery, or working. Thus, there is a need in the art for a system and method for receiving information from the Internet that does not tie up communications facilities and is more convenient for a user.

One technique to address these needs in the art has been utilized in  
20 palmtop devices, such as the Apple Newton Messagepad 2000 and Palm III. These palmtop devices offer services whereby you can download Internet content from a web site, to a personal computer, and then to the palmtop device for later, off-line viewing. These palmtop devices only provide the simple one way exchange of data, from the web site to the user. The palmtop devices do  
25 not allow for any interaction with the web site and give no opportunity for feedback from the user to the web site. In addition, these devices provided information in a text only format. Thus a user that is driving in his or her car cannot safely read the text from the palmtop device. Thus, there is a need in the

art for a system and method for downloading content from the Internet,  
delivering the content to the user, and allowing for responses to the content from  
the user to be returned to the content provider or the web site. There is also a  
need in the art for a system and method that will deliver audible Internet content  
5 to a user, as well as delivering textual content in a spoken manner, thus enabling  
a user to listen to a the content of a web site and respond to that content.

From a commercial perspective, much benefit could be obtained through  
the delivery of audible advertisements to a user. For instance, a company that  
provides audible content to a user may be able to provide this service at no cost  
10 if businesses were allowed to interject advertisements into the audible content.  
Users of mobile web reading devices are an untapped market for goods and  
services. In addition, after delivering an advertisement to a user of a portable  
reading device, the ability to receive feedback from the user regarding the  
advertisement would be very beneficial. Presently in the art, there is no such  
15 system or method that allows a user to react upon hearing or reading an  
advertisement. The impulse buyer is lost to these potential e-commerce  
transactions. It is well known that directed advertising is more productive and  
cost efficient than blind advertising. It would therefore be beneficial for an  
advertiser to receive demographic information and feedback response  
20 information about an Internet user or audience and provide advertisements in  
accordance with this information.

Thus, there is a need in the art for a system and method that will allow  
advertisements to be inserted into downloaded web content for delivery to a  
user's playback device and will allow for responses to those advertisements to  
25 be returned back to the advertisers. There is also a need in the art for a  
system and method that will target the advertisements to particular users based  
on feedback information from a user and user demographic information that  
matches a demographic profile for an advertisement.

One technique to download a program of Internet information for user playback that does not require the use of communications facilities during playback, is to download the information at a time prior to the desired playback time. In this type of a system, as well as in other embodiments, it is desirable to include a system and a method that allows a user to specify the particular content, categories of content, or the general nature of the content desired. In particular, it is desirable for the user to be able to compose a program either directly, or through entering profile information that can be examined and used to direct the composition of the program. In addition, for a program that has been composed based on the profile information (a "baseline program"), it is desirable to allow the user to alternate the baseline program, either partially or in its entirety. It is desirable for the ability to alternate the baseline program to include the ability to add, delete, or rearrange particular segments of the baseline program. Thus, there is a need in the art for a system and a method for providing web content programming that allows a user: to directly control the composition of the program; to guide the composition of a program by providing user profile information; and to alter the program by adding, deleting or rearranging the content of the program.

Therefore, it has been shown that there is a need in the art for a system and a method that constructions information content programming from the Internet and provides the delivery of programming in an audible form, that may include advertising information, and that can receive user feedback and demographic information to base the content of the programming and the advertisements.

## SUMMARY

The above needs in the art are satisfied through one or more embodiments of the present invention. One aspect of the present invention is to provide a closed loop system for, and a method of, delivering information obtained from

an information content source to a playback device. The system comprises a mobile-content server and a client platform. The mobile content server comprises a web site, a database, and a server application. The web site is interconnected to the information content and is available for access by a user.

- 5 The database stores, among other things, user information. The server application operates on the mobile-content server and enables the mobile-content server to: retrieve the user information from the database; retrieve content segments from the information content source; create content packages including at least one content segment; deliver the content package to the client  
10 platform; and receive response information from the client platform where the response information is associated with at least one content segment.

The client platform comprises a web browser for interacting with the website operating on the mobile-web content server and a client application. The client application operates on the client platform and enables the client  
15 platform to: download the content package from the mobile-content server to the playback device; receive response information from the playback device; and deliver the response information to the mobile-content server.

These and other aspects, features, and advantages of the present invention will be set forth in the description that follows and possible embodiments  
20 thereof, and by reference to the appended drawings and claims.

## BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 illustrates the system architecture of an exemplary embodiment of the present invention.

Figure 2 is a system diagram that illustrates an exemplary environment  
25 suitable for implementing various embodiments of the present invention.

Figure 3 is a flow diagram that illustrates the operation of an exemplary embodiment of the present invention when a user on a client platform using a browser contacts a web site on a mobile-content server.

Figure 4 is a flow diagram that illustrates two of the several processes running in the server applications of a mobile-content server in an exemplary embodiment of the present invention.

Figure 5 is a data diagram illustrating the creation of a content package  
5 from content segments in an exemplary embodiment of the present invention.

Figure 6 is a flow diagram that illustrates the operation of the client application within the client platform 120 of an exemplary embodiment of the present invention.

#### DETAILED DESCRIPTION OF EXEMPLARY EMBODIMENTS

10 The present invention provides a system and a method for implementing a closed loop response for facilitating electronic commerce transactions and for providing information to a mobile user. One configuration of the system includes a mobile-content server, a client platform, and a playback device. Another configuration of the system only includes a mobile-content server and  
15 playback device. In another configuration of the system, the functions of the mobile-content server and the client platform are combined into a single device that interfaces with a playback device. In yet another configuration of the system, only a playback device is required.

One aspect of the present invention is the composition of playback  
20 programs to be provided to the playback devices. A playback program is a composition of a variety of content including news, entertainment, advertising, and/or other forms of information. The playback programs can be downloaded to a playback device and then played back for a user. The content is included within a playback program in the form of content segments. Each content  
25 segment included in a playback program represents a segment of information, such as, a song, a news headline, a talk radio show, a broadcast sports event, stock performance or quote, sport score boards, or any of a variety of other types of information, or portions thereof, that can be delivered in electronic form. The

present invention may generate the playback programs in: an autonomous manner; based on user profile information; based on live or recent input from a user; based on historical input from a user; and/or using other methods or techniques.

5 Another aspect of the present invention is to provide a variety of content segments that can be used by other devices to generate playback programs. In one embodiment of this aspect of the present invention, a playback list is used to construct a playback program from the variety of content segments. The playback list is a list of program information that a user desires to receive.

10 Advantageously, this aspect of the present invention enables a playback device to generate and provide a variety of playback programs. In operation, a variety content segments are downloaded to the playback device. At playback time, the user may compose a playback list to define which content segments will be played back and in what order they will be delivered.

15 Another aspect of the present invention is to include directed advertisement content within the playback programs. The advertisement content for a playback program may be selected in: an autonomous manner; based on user profile information; based on live or recent input from a user; based on historical input from a user; and/or based on other methods or techniques. In  
20 addition, advertising content may be selected under the control of or based on information provided by an advertiser. This aspect of the present invention is further advanced through the ability for a user to provide feedback information to the system. The ability to provide feedback information allows an advertiser or service provider to receive a user's response to an advertisement or any other  
25 type of information provided to the user. In various embodiments of the present invention, the feedback capability may be used to allow a user to request additional information, initiate a purchase, and/or request to be added to a postal mail or electronic mail list.

Advantageously, various embodiments of the present invention allow a user to receive Internet content in a variety of forms including textual, audible, and visual. In addition, a user is able to identify desired programming content, receive playback programs that include the desired programming content at a convenient time (i.e., while the user is asleep or preparing to go to work), and playback the programming content at the user's convenience, such as on the way to work, on the user's lunch break, sitting in the doctor's waiting room, or the like. Now turning to the figures in which like numbers refer to like elements and processes throughout the several views, various embodiments of the present invention are described in greater detail.

#### General System and Operation Description

Figure 1 illustrates the system architecture of an exemplary embodiment of the present invention that includes a mobile-content server 135, a client platform 120, and a playback device 155 all interconnected through the Internet 105. As those skilled in the art will understand, the Internet 105 is an electronic communications network that connects computer networks and organizational computer facilities around the world. While the preferred embodiment of this invention will be described with reference to the Internet as the electronic communications network of choice, any widespread communications network, such as the upcoming Internet II, will facilitate this invention.

The Internet 105 also facilitates communication with a plurality of information sources or content providers 110 and 115 over communication links 160 and 165, respectively. The content providers 110 and 115 may include informational websites, such as cnn.com, msnbc.com, or news.com, commercial product websites, such as amazon.com or barnesandnoble.com, and/or private or proprietary websites. The means of linking content providers 110 and 115 to the Internet are well known to those skilled in the art. It should also be understood that the content provider may take on many forms and is not

to be limited to a website that may be accessed through the Internet. For instance, a compact disc player, a tape player, or any other variety of recorder, or even live information may be used as a source for raw or formatted content.

The client platform 120 interfaces with the Internet over a communications link 175. The client platform 120 includes a browser 125 and a client application 130. The browser 125 may be a standard Internet browser such as NETSCAPE Communicator or Microsoft Internet Explorer, or a proprietary browser. As is well known to those skilled in the Internet, a browser allows a user to retrieve web pages, files, or the like from various content providers 110 and 115. The web pages may be graphically displayed for the user, who may then point-and-click his way through the world wide web.

The mobile-content server 135 in a typical embodiment of the invention comprises a database 145, a website 140 and server applications 150. The mobile-content server 135 interfaces to the Internet over a communications link 170. The database 145 is used to provide storage for program data, content segments, playback programs, user profiles, as well as other information. The server applications 150 include program modules necessary to perform various tasks, such as, generating content segments and playback programs, managing e-mail messages and user profiles, executing electronic commerce functions, initiating and controlling information downloads, and processing responses from the client platform 120 or the playback device 155. The website 140 provides an interface for users, devices, service providers, and/or advertisers to enter user profile information, select options and configurations, and provide information and advertising content.

In general, the mobile-content server 135 operates to receive and/or extract web-based information from various content providers 100 and 115, convert the web-based information into content segments, package the content segments into a playback program, and download the playback program to the

client platform 120 and/or to the playback device 155. In one embodiment, the mobile-content server 135 receives raw information from the content providers 110 and 115 and generates content segments. The mobile-content server then generates playback programs that include one or more of the content segments and downloads the playback programs to the client platform 120 and/or the playback device 155. In this embodiment, the playback programs are played as is by the playback device 155. In another embodiment, rather than generating playback programs, the mobile-content server may download the content segments to the client platform 120 and/or the playback device 155. Playback programs can then be constructed by the client platform 120 or the playback device 155 through the use of a playback list, in real-time by a user, or by using other means. The use of a playback list is advantageous in that it allows various content segments to be selected and played for a particular playback program. The playback list can be provided from the mobile-content server 135, generated and provided from the client platform 120, or generated by the user using the client platform 120 or the playback device 155. Alternatively, multiple playback lists can be downloaded to the playback device 155 and selected and enabled upon command by the user. In yet another embodiment, the mobile-content server 135 may receive content segments, rather than raw data, directly from the content providers 110 and 115. In another embodiment, the mobile-content server 135 may receive a pre-composed playback program, including information content segments and advertising segments, directly from a content provider 110. In this embodiment of the present invention, the pre-composed playback program may also be directly downloaded to the playback device 155, bypassing the need for the mobile-content server 135 and the client platform 120. In addition, the playback device may utilize a playback list to identify desired content segments and then directly access various content providers 110 and 115 to download the segments either in real-time, or prior to playback time.

The client platform 120 is typically located within the user's home or office but, in practice, it is location independent. In an exemplary embodiment, the client platform 120 serves as a manager for the playback device 155 and facilitates or coordinates the transfer of information between the mobile-content server 135 and the playback device 155. As previously described, the client platform 120 may include a web browser 125 and a client application 130. Using the client platform 120 web browser 125, a user accesses, via the Internet 105, the website 140 hosted by the mobile-content server 135. Accessing the website 140, among other things, allows the user to establish an account, update and configure the account, enter profile information, and enter preference information. The website 140, interacts with the database server 145 to store certain information provided by the user. Profile information defines attributes of the user and includes, but is not limited to, the user's name, company, address, e-mail, credit card information, etc. Preference information defines the type of services and products that the user desires and includes, but is not limited to, the desired content that the user wants to receive, categories of content that the user wants to receive, and scheduling information for obtaining and downloading the information to the user.

The server application 150, residing within the mobile-content server 135, performs various operations, such as, generating content segments, generating playback programs, providing content and e-mail aggregation and packaging based on the stored user profiles and preferences, electronic commerce processing, initiating downloads in accordance with scheduling information, and processing responses from the client platform 120 or the playback device 155.

In operation of an exemplary embodiment, the client application 130, operating within the client platform 120, initiates scheduled and on-demand connections to the mobile-content server 135. Once a connection is established, the client application 130 initiates the download of content segments and/or

content packages or playback programs from the mobile-content server 135 to client platform 120. In addition, the client application 130 may upload any responses, previously received from the playback device 155, to the mobile-content server 135. The server application 150, operating within the mobile-content server 135, may store these responses, and based on these responses, invoke appropriate actions. Appropriate actions may include, but are not limited to, contacting content providers 110 and 115 to obtain additional information to be provided to the user, initiating or completing the purchase of a product, adding a user to a postal or electronic mailing list, or the like.

The playback device 155 is a mobile computing platform that is capable of voice, audio, data, and/or video playback. The playback device may be a proprietary hardware platform or a commercially available platform such as a Windows CE or Palm OS device. The playback device 155 includes: a processor; memory for storing playback programs, user responses and other information; an input interface that may include one or more buttons or other input capabilities; and an output interface including a display, a speaker, and/or an output audio and/or video jack. The playback device 155 operates to play a playback program. In addition, during the playback of a playback program, or even prior to or subsequent to the playback of a playback program, the playback device 155 is capable of recording responses from a user and associating those responses with particular content segments of the playback program. In one embodiment of the present invention, the user responses are associated with a particular content segment of a playback program by identifying the currently active content segment (i.e., the content segment being listened to or viewed on the playback device 155) at the time that the user responds (i.e., actuates a push-button switch). In another embodiment, the user may perform certain functions to associate a response with a particular content segment. In addition, some embodiments of the present invention may partition each content segment into

multiple sub-segments. In the multiple sub-segment embodiment, user responses may be associated with the sub-segments of the content segments. As an example, an advertising segment may include three sub-segments. If a user actuates a response button during a first sub-segment, the user may be put on a mailing list for additional information. If the user actuates the button during a second sub-segment, an electronic commerce transaction for the purchase of a product may be initiated. If the user actuates the response button during the third sub-segment, the user may be requesting additional information regarding the advertised product or service to be sent to the playback device 155 at a later time. An electronic commerce business method use of the present invention also includes sample products. In an embodiment of the present invention, a content segment may include an excerpt or sample of a product followed by a trailer or preceded by a header. The product may include songs, audible books, programs, infomercials, or any of a variety of other products. If the use actuates a response mechanism during the playback of the sample, then upon receiving the response, the mobile-content server 135 may initiate a first process such as ordering a full copy of the product and including the product in a future playback program. If the user actuates a response mechanism during the playback of the trailer, the mobile-content sever 135 may initiate a second process such as ordering a hard copy of the product in the form of a CD, DVD, video cassette, audio cassette, or other format. In another embodiment of the present invention, the playback program may contain e-mail messages. During the playback of an e-mail message, the response options for the user may include responding to the e-mail, marking the e-mail as read, deleting the email, or if the e-mail messages prompts the user for a response, accepting the response from the user. In addition, this embodiment of the present invention may also be used in conjunction with scheduling programs. For instance, if the user receives a message indicating that a conference has been scheduled, the

response options may include accepting, declining or rescheduling the conference. It will be appreciated that the various aspects of the present invention may be utilized in a variety of electronic commerce business methods.

Responses from the user may be input in various methods, depending on the particular embodiment, and may include a simple singular push button either in hardware or displayed by software on a screen; input by multiple input buttons where each button has a different meaning; verbal commands interpreted by a voice detection device; and/or other forms of input.

The playback programs, or the content segments, may be loaded into the playback device 155 in several methods. In one embodiment, the playback device 155 is in communication over the communications link 180 with the client platform 120. In this embodiment, the information is exchanged between the playback device 155 and the client platform 120. The communications link 180 between the playback device 155 and the client platform 120 may be established by a physical, wired connection, a radio frequency transmission, by infrared or optical transmission, or through defined standards such as IrDA, cellular, paging, or BlueTooth. While a communications link is established, the client application 130 uploads from the playback device 155 any responses that may be stored within the playback device 155. These responses may then be uploaded by the client application 130 to the server application 150 for appropriate action. In addition, the client application will determine if any new playback programs or content segments are available on the client platform 120, and, if so, download them to the playback device 155. If no new playback programs or content segments are available, the user of the client platform 120 may demand the client application 130 to request a playback program or content segment from the server application 150. As previously described, the server application 150 may then retrieve content segments from the content providers 110 and 115, or retrieve raw information from the content providers 110 and

115 and generate content segments therefrom, package the content segments into a playback program or a content package, and download the playback program to the client platform 120. The client platform 120, in response to receiving the playback program, will store the playback program for  
5 downloading to the playback device 155 at a later time. In another embodiment, the playback device 155 includes an interface to an input device, such as a Compact Flash II device, for receiving playback programs. In this embodiment, pre-packaged playback programs can be purchased or received on a Compact Flash II device and then played by the playback device.

10 Alternatively, the playback device 155 may be directly connected to the Internet 105 through ADSL, DSL and/or USBP to upload the identity of the playback device 155 to a website and then download playback programs or content segments to the playback device 155.

It should be understood that the functions and features described as  
15 embodied within the mobile-content server 135, the client platform 120 and/or the playback device 155 may be distributed, combined, and/or divided between the various system components, or other components in any manner. For instance, the playback device 155 could include all of the necessary components to connect to one or more content providers 110 and 115, download web-based  
20 information, convert the web-based information into content segments, generate a playback program and then play the playback program. The present invention is not limited to any particular configuration of the system components and the distribution of the various functions and, in fact the various aspects of the present invention are equally applicable to these various embodiments. The  
25 operation of the invention will be more fully understood with reference to the flowcharts and the discussion associated with Figures 3 through Figures 6.

#### Exemplary Environment

Figure 2 is a system diagram that illustrates an exemplary environment suitable for implementing various embodiments of the present invention. Figure 2 and the following discussion provide a general overview of a platform onto which the invention may be integrated or implemented. Although in the context of the exemplary environment the invention will be described as consisting of instructions within a software program being executed by a processing unit, those skilled in the art will understand that portions of the invention, or the entire invention itself, may also be implemented by using hardware components, state machines, or a combination of any of these techniques. In addition, a software program implementing an embodiment of the invention may run as a stand-alone program or as a software module, routine, or function call, operating in conjunction with an operating system, another program, system call, interrupt routine, library routine, or the like. The term program module will be used to refer to software programs, routines, functions, macros, data, data structures, or any set of machine readable instructions or object code, or software instructions that can be compiled into such, and executed by a processing unit.

Those skilled in the art will appreciate that the system illustrated in Figure 2 may take on many forms and may be directed towards performing a variety of functions within a range of devices, any of which may serve as an exemplary environment for embodiments of the present invention.

The exemplary system illustrated in Figure 2 includes a platform 210 that is made up of various components including, but not limited to, a processing unit 212, non-volatile memory 214, volatile memory 216, and a system bus 218 that couples the non-volatile memory 214 and volatile memory 216 to the processing unit 212. The non-volatile memory 214 may include a variety of memory types including, but not limited to, read only memory (ROM), electronically erasable read only memory (EEROM), electronically erasable and programmable read only memory (EEPROM), electronically programmable

read only memory (EPROM), electronically alterable read only memory (EAROM), and battery backed random access memory (RAM). The non-volatile memory 214 provides storage for power on and reset routines (bootstrap routines) that are invoked upon applying power or resetting the platform 210. In some configurations the non-volatile memory 214 provides the basic input/output system (BIOS) routines that are utilized to perform the transfer of information between the various components of the platform 210.

The volatile memory 216 may include a variety of memory types and devices including, but not limited to, random access memory (RAM), dynamic random access memory (DRAM), FLASH memory, EEROM, bubble memory, registers, or the like. The volatile memory 216 provides temporary storage for program modules or data that are being or may be executed by, or are being accessed or modified by the processing unit 212. In general, the distinction between non-volatile memory 214 and volatile memory 216 is that when power is removed from the client platform 135, server platform 120 and playback device 155 210 and then reapplied, the contents of the non-volatile memory 214 is not lost, whereas the contents of the volatile memory 216 is lost, corrupted, or erased.

The platform 210 may access one or more internal or external display devices 230 such as a CRT monitor, LCD panel, LED panel, electro-luminescent panel, or other display device, for the purpose of providing information or computing results to a user. The processing unit 212 interfaces to each display device 230 through a video interface 220 coupled to the processing unit over system bus 218.

The platform 210 may have access to one or more external storage devices 232 such as a hard disk drive, a magnetic disk drive for the purpose of reading from or writing to a removable disk, and an optical disk drive for the purpose of reading a CD-ROM disk or to read from or write to other optical

media, as well as devices for reading from and or writing to other media types including but not limited to, FLASH memory cards, Bernoulli drives, magnetic cassettes, magnetic tapes, or the like. The processing unit 212 interfaces to each storage device 232 through a storage interface 222 coupled to the processing  
5 unit 212 over system bus 218. The storage devices 232 provide non-volatile storage for platform 210.

The platform 210 may receive input or commands from one or more input devices 234 such as a keyboard, pointing device, mouse, modem, RF or infrared receiver, microphone, joystick, track ball, light pen, game pad, scanner, camera,  
10 or the like. The processing unit 212 interfaces to each input device 234 through an input interface 224 coupled to the processing unit 212 over system bus 218. The input interface may include one or more of a variety of interfaces, including but not limited to, an RS-232 serial port interface or other serial port interface, a parallel port interface, a universal serial bus (USB), an optical interface such as  
15 infrared or IrDA, an RF or wireless interface such as Bluetooth, a voice interface, or other interface.

The platform 210 may send output information, in addition to the display 230, to one or more output devices 236 such as a speaker, modem, printer, plotter, facsimile machine, RF or infrared transmitter, or any other of a variety  
20 of devices that can be controlled by platform 210. The processing unit 212 interfaces to each output device 236 through an output interface 226 coupled to the processing unit 212 over system bus 218. The output interface may include one or more of a variety of interfaces, including but not limited to, an RS-232 serial port interface or other serial port interface, a parallel port interface, a  
25 universal serial bus (USB), an optical interface such as infrared or IrDA, an RF or wireless interface such as Bluetooth, a voice interface, or other interface.

The platform 210 may operate in a networked environment using logical connections to one or more remote systems, such as a remote computer 238.

The remote computer 238 may be a server, a router, a peer device or other common network node, and typically includes many or all of the components described relative to platform 210. When used in a networking environment, the platform 210 is connected to the remote system 238 over a network interface

228. The connection between the remote computer 238 and the network interface 228 depicted in Figure 2 may include a local area network (LAN), a wide area network (WAN), a telephone connection, or the like. These types of networking environments are commonplace in offices, enterprise-wide computer networks, intranets and the Internet.

It will be appreciated that program modules implementing various embodiments of the present invention may be stored in the storage device 232, the non-volatile memory 214, the volatile memory 216, or in a networked environment, in a remote memory storage device of the remote system 238. The program modules may include an operating system, application programs, other program modules, and program data. The processing unit 212 may access various portions of the program modules in response to the various instructions contained therein, as well as under the direction of events occurring or being received over the input interface 224 and the network interface 228.

#### Operation of Various Embodiments of the Present Invention

Figure 3 illustrates the operation of an exemplary embodiment of the present invention when a user on the client platform 120, using the browser 125, contacts the website 140 on the mobile-content server 135. The steps illustrated in Figure 3 describe the user access operations of a typical embodiment of the present invention. Those skilled in the art will understand that functions described in connection with Figure 3 could be implemented in a variety of methods, with each method adding additional steps or eliminating other steps. Upon accessing the website 140 of the mobile-content server 135 (step 310), the user is presented with the option of logging onto the website or entering as a

new user (step 315). In another embodiment of the present invention, each user may be assigned a unique identification number. Upon accessing the website 140, the identification of the user is accessible to the website 140, thus eliminating the requirement for the user to log into the website 140.

5        Upon entering as a new user, the user is presented with a new user screen (step 320). At the new user screen, the user may be prompted to enter profile information and preference information. Profile information may include, but is not limited to, the user's name, company, email address, shipping address, credit card information, billing address or the like. Profile information may also  
10        include personal information, such as age, sex, occupation, income, hobbies, interests, and other demographic information. Those familiar with websites will understand that additional profile information can easily be requested from users and collected.

15        The new user may also be prompted to enter preference information. The preference information, among other things, identifies the desired content that the user wishes to retrieve from the content providers, categories of content or information that the user wishes to receive, types and brands of merchandise that a user prefers, and scheduling information for obtaining and downloading the information. As previously mentioned, the desired content may be retrieved or  
20        received from the content providers 110 and 115 as raw web-based information and then converted into content segments, as content segments, or as encapsulated within a playback program. Regardless of the format received, the desired content is ultimately represented in the form of one or more content segments. The user can specify the desired content at various levels of detail.  
25        For instance, the desired content may be last nights baseball scores from espn.com, the front page of the last Sunday's edition of the New York Times from nytimes.com, or the first hour of the Neal Boortz talk radio show from boortz.com. When a user requests content at this level of detail, the user may

enter the specific web address of the content provider 110 or the name of the content provider. When the mobile-content server 135 attempts to compose or aggregate a playback program, the server application 150 will access the specific web address or look up the name of the content provider in a database to find the appropriate address of the content provider 110. Alternatively, the user may request content by providing search information such as subjects, titles, events, names, locations, key words, or the like. The mobile-content server 135 may include a proprietary search engine or utilize one or more of a variety of available search engines to find and obtain web-based information or content segments related to the search information. The mobile-content server 135 may further filter this information based on the user's profile and/or preference information. The user may also request information of a more general nature. To provide this feature, categories of content are presented to the user to select as input for the user's preference information. In one embodiment, the categories represent collections of predefined content providers 110 and 115 fitting a particular characteristic. Examples of categories are business, sports, and music. A business category may include information from content providers such as the Wall Street Journal, nytimes.com, cnnfn.com, and thestreet.com.

Commonly, a user is reluctant to enter personal information into a website for a variety of reasons, even if the website is protected by password access. This reluctance may be due to a lack of trust in the privacy of the information or simply due to a lack of time. The present invention helps to alleviate this reluctance by giving users credits for personal information that they enter into the system. The credits may be awarded to the user in a variety of methods. One method is to assign a weighted value to each item of information that the user may enter and awarding credits based on this weighted value. Another method is to award credits based on the percentage of the total amount of

information that the user provides. Thus, the more personal information that the user enters, the more credits the user will receive. The user will later be able to exchange these credits for free items, coupons, services or discounts from participating content providers, or the like. The credits may take the form of the Internet Flooz currency or other similar forms. In addition, the user profile information and preference information may be used to select various types of credits to award to the user. For instance, if the user profile and preference information indicates that the user is a golfer, the user may receive credits to be used at a sports shop or on an Internet based golf supply catalog. In addition, if the user preference information indicates that the user prefers Taylor Made TM brand golf equipment, the user may be awarded credits toward the purchase of Taylor Made TM sporting equipment.

The new user may also be prompted to enter scheduling information. The scheduling information details when the user would like the mobile-content server 135 to aggregate the content segments into a playback program and download to playback program to the client platform 120 and/or the playback device 155. In one embodiment of the present invention, high-speed Internet connections may be used by the mobile-content server 135 in accessing various content providers 110 and 115 to obtain web-based content or content segments, whereas slower speed connections may be used to download the playback programs to the client server 120 and/or the playback device 155. In this embodiment, because of the large amounts of data associated with audio and/or video files, the user will want to schedule aggregation and downloading of playback programs prior to the user's wanting the content packages in the user's playback device. For instance, a user scheduling may request a content package to be ready on his client platform at 7 a.m., so that the user can listen to the information on the way to work. In this case, aggregation, packaging and downloading of content may begin at 3 a.m. to be ready in time. In another

embodiment, high-speed connections may be used to download the playback programs or content segments to the client server 120 and/or the playback device 155. In these embodiments, more flexibility is provided to the user regarding when the playback programs can be downloaded. In fact, in certain  
5 circumstances the playback programs may be generated and downloaded in real-time to the playback device 155.

The new user may also be prompted to select a user name and password combination. The user name and password combination should be unique to distinguish this user from all other users. Once the profile information, the user  
10 name and the password are established, the database 145 is updated with this information (step 325). In addition, in certain embodiments, the server application 150 may download the client application 130 onto the client platform 120. Alternatively, the client application can be distributed on a storage medium, such as a CD ROM, floppy disk, Compact Flash II, Compact  
15 Flash, or DVD, and installed on the client platform 120 by the user.

After updating the database 145, the user is returned to the website 140 where the user may log onto the website 140 or exit (step 330). Users that have previously accessed the system as a new user are also directed to this step. A user already in the database may log onto the website 140 by entering his user  
20 name and password. Optionally, a cookie may have been placed on the client platform 120 that will identify the user to the website 140, so that the user will only have to enter his password. A cookie is a small bit of information stored by a website through the user's browser enabling websites to recognize the user upon the user's return to the website. Optionally, the user may store his user  
25 name and password within his client platform 120, so that information is automatically passed to the mobile-content server 135 to eliminate having to enter the user name and password. The mobile-content server 135 will verify the user name and password of the individual against those stored in the

database 145 and allow the user access to his information if the user name and password are valid. An invalid user name and password will allow the user additional attempts to enter a valid user name and password.

A user also has the option of updating the user information. If the user chooses not to do anything, the user can log off the website 140 (step 350) and return to the front page of the website 140 (step 310). If the user elects to update his password, profile information, preference information, or schedule information, processing continues at step 340. Using a variety of techniques, the user can view the user's current information, enter new information, or modify existing information. Upon completion, the modified information is stored into the database 145 (step 345) and processing returns to step 335.

Figure 4 illustrates two of the several processes running in the server applications 150 of the mobile-content server 135 in an exemplary embodiment of the present invention. The first process, illustrated in blocks 405 through 435, shows the process of creating a content package or playback program to be downloaded to the client server 120 and/or the playback device 155. Each user has a stored schedule indicating when the content segments should be aggregated, packaged into content packages and delivered to the client platform 120. The mobile-content server 135 keeps an index of all of the users and their schedules. When an update is triggered for a particular user at the mobile-content server 135, either due to a scheduled update or because the user requests an on demand update either directly or through the client platform 120, the server application 150 reads the preference and/or the profile information for that particular user (step 405). From the preference and/or profile information, the server application 150 generates a list of websites.

At step 410, the mobile-content server 135 initiates the download of information from the websites of various content providers 110 and 115 based on the list of websites, and stores them as content segments. If the websites are

textual, all static graphic information is stripped, and the text files are stored. If the website contains an audio or video file, these files are stored in the mobile-content server 135.

At step 415, all text files that have been downloaded may be converted to  
5 audio files depending upon the format required for the playback device 155. The audio files are stored in a standard audio format such as mp3. While this invention will make reference to mp3 files as an exemplary embodiment, those skilled in the art will realize that the particular format is unimportant. Any video files remain in their video format. In the exemplary embodiment, the  
10 video format is mpeg although any format may be used.

At step 420, the mobile-content server 135 generates and tags each audio and video file, or each content segment, with a unique identifier. The mobile-content server 135 maintains a database of the unique identifiers, the content segments, and the associated websites. In one embodiment, the unique identifier  
15 is appended to the front of each audio or video file. Alternatively, an ordered list of unique identifiers may be associated with a content package or playback program. Other embodiments may use differing techniques to associate the unique identifiers with the content segments or sub-segments within a playback program and the present invention anticipates such techniques and is not  
20 dependent upon any particular technique.

At step 425, the user profile information for the particular user is read from the database. At step 430, the user profile information is used to select advertisement segments to be included in the playback program. The selection and integration of the advertisement segments into the playback program is an  
25 important aspect of the present invention. In an exemplary embodiment of the present invention, advertisers may provide advertisement segments along with target profile information. The target profile information may include multiple fields that are used to identify the type of person that the advertisement should

be directed towards. In selecting advertisements, the user profile information is compared with the target profile information. Advertisements are selected and aggregated for a user based on matches and correlation between the user profile information and the target profile information. Thus, using this aspect of the present invention, the advertisements may be tailored specifically to a particular user. Advantageously, this unique profile matching aspect of the present invention enables advertisers to more effectively reach their audience. In addition to profile advertisements described above, universal advertisements intended to go to any or all users may be aggregated. In an exemplary embodiment of the present invention, each advertisement segment also has an associated unique identifier stored in the database 145 and appended to the front of the advertisement file or associated with the advertisement segment in some other manner.

At step 435, the audio segments, video segments, and advertisement segments, collectively termed content segments, are aggregated into a content package or playback program. In an exemplary embodiment of the present invention, a playlist is generated along with all of the associated content segments and deemed to collectively form the content package. This playlist contains a serial list of all of the content segments and their associated unique identifiers or can be used to index the content segments. Alternatively, a single file may be generated to form a content package or playback program comprising the content segments. In an exemplary embodiment, one or more advertisements are placed between each of the non-advertisement content segments. It should be understood that the length of the content segments, the number of advertisements segments between non-advertisement segments, and the number of non-advertisement segments between advertisement segments is not critical to the present invention, and in fact, the present invention anticipates any particular configuration.

After a playback program is generated, it may be downloaded to the client platform 120 upon command from the client application 130 or, in other embodiments, directly to the playback device 155. The creation of a content package will be more fully understood with reference to Figure 5.

5        Blocks 450 through 460 illustrate a second process running in the mobile-content server 135. This second process is the closed-loop response or feedback aspect of the present invention. As previously described above, the playback device 155 may receive the playback programs, as well as provide response information. Upon the playback device 155 linking to the client platform 120  
10 over communications channel 180, response data may be uploaded to the client platform 120. In turn, the client platform 120 may then upload the response information to the mobile-content server 135. The response information that is ultimately provided to the mobile-content server 135 contains a list of responses from the user and the content segment, or sub-segment associated with the  
15 response. In operation, as the user listens and/or views the playback program on the playback device, the user can respond to any particular content segment by activating a response generator. In an exemplary embodiment, the response generator may be a button, a voice command, or any other means. In response to actuating the response generator, the playback device records the unique  
20 identifier of the currently active content segment in a response file in the playback device 155. This response file comprises the response information to be uploaded to the mobile-content server 135. On a multi-button playback device or a device equipped with voice detection, the response file also associates a response type with the unique identifiers.

25        At step 450, the mobile-content server 135 receives the response file from the playback device 155. At step 455, the server application 150 reads the listing of unique identifiers and, if applicable, the response type. The server application 150 will look up the unique identifier in the database to identify the

website offering, or advertisement, that is associated with the response and unique identifier. At step 460, the server application 150 initiates an appropriate action based on the response. The action depends on a predefined instruction for a particular website or a default action. The server application may send a response message, by means of email, EDI, or any other known method, to the content provider 110 or advertiser notifying them that a particular user has responded to a particular segment or sub-segment. In the response message, the server application 150 may include particular pieces of profile information to assist the content provider in satisfying the response. In addition, future advertisements may be directed at the user based on his responses to previous content and advertisements. The default action may include sending an electronic mail message notifying the website of a response and a set of default information. In one embodiment, the default information may include the name and electronic mail address of the responding user. It should be appreciated that the default information may vary between embodiments of the present invention.

In a multi-button system, each response may cause a particular action to be taken by the server application. A first button, an information or "i" button, may merely cause an electronic mail request to be sent to the content provider or advertiser indicating that further information should be sent to the user. A second button, a purchase or "\$" button, may cause the product being described to be purchased for the user in an e-commerce transaction. For instance, the user may press the "\$" button during an advertisement for a particular book by amazon.com. In response to receiving notice of this action, the mobile-content server 135 can transfer the name, credit card, billing, and shipping information for that particular user to amazon.com from the mobile-content server 135. Ultimately, the book is purchased and shipped to the user. The closed loop

response feature of the invention, in this case, triggers a very simple e-commerce transaction for the user.

Similarly, in a voice activated system, each response may cause a particular action to be taken by the server application 150. A first response, requesting further information, may merely cause an electronic mail request to be sent to the content provider or advertiser for further information to be sent to the user. A second response, requesting purchase, may cause the product being described to be purchased for the user in an e-commerce transaction. For instance, the user may recite the word "purchase" during an advertisement for a particular book by amazon.com. In response to receiving notice of this action, the mobile-content server 135 may transfer the name, credit card, billing, and shipping information to amazon.com. Ultimately the book is purchased and shipped to the user. Once again, the closed loop response feature of the invention, in this case, triggers a very simple e-commerce transaction for the user.

In another embodiment, each particular content segment, advertising or non-advertising, may have an associated action. For instance, a content segment may be associated with such actions as: provide further information; perform purchase; provide related information; or the like. In this embodiment, a single button playback device may invoke various responses based on the action associated with the content segment. In a typical application of the present invention, advertisers may be charged at different rates based on the actions associated with or invoked for their advertisements. For instance, if a user initiates the purchase of a product, the advertiser may be charged more than if the user simply wants to receive additional information regarding a product.

In another embodiment of the present invention, each particular content segment, advertising or non-advertising, may be broken into sub-segments with each sub-segment having an associated header with a unique identifier. For

instance, an advertising segment may have three sub-segments where actions in the first sub-segment are associated with the action of providing further information, the second sub-segment is associated with the action of purchasing, and the third sub-segment is associated with the action of providing information on related products. In this embodiment, the response to sub-segment association can be based on time (i.e., the first 60 seconds of a segment will be associated with a first response, the middle 10 minutes of a segment will be associated with a second response, and the last 60 seconds of a segment will be associated with a third response).

In another embodiment of the present invention, a response by the user in the mobile player will not only record the unique identifier of the segment currently being played, but will also record the segment time when the response occurred. For instance, if one minute into an advertising segment a response is received from the user, the response file will include the unique identifier of the response and the data "1:00" to denote that the response was received one minute into the segment. When the mobile-content server 135 receives this response file, the mobile-content server can initiate action based, at least in part, on the segment time.

Another aspect of the present invention is the ability for advertisers and content providers 110 and 115 to download information to the mobile-content server 135. In a process not illustrated, the server application 150 interacts with the web site 140. If an advertiser on the mobile-content server's 135 website 140 is browsing the website, the advertiser may drag an audio/video file including one or more content segments to a certain location on the website's page (i.e., over the advertisers advertisement). This operation will result in loading the audio advertisement into the advertisement database for later use in aggregating and packaging the content packages for users of the system. This aspect of the present invention also provides an interface for the advertisers or

content providers to enter target profile information. In another embodiment, a the mobile-content server 135 may provide a graphical display of a playback program to a service provider or advertiser. The service provider or advertiser can drag and drop various content segments into positions within the graphically displayed playback program.

Figure 5 is a data diagram illustrating the creation of a content package from content segments in an exemplary embodiment of the present invention. As described previously, the mobile-content server 135 downloads the audio segments 500 and the video segments 510 from content providers 110 and 115.

Alternatively, the mobile-content server 135 may generate the content segments internally from the raw web-based information. In addition, advertisement segments 520 are maintained in mobile-content server 135. The audio segments 500, video segments 510, and advertisement segments 520 are collectively known as content segments. The audio segments 500 and video segments 510 are collectively known as information content segments. Having been aggregated based on a user's profile, these content segments are strung together in playback program or content package 525 which has a total of n segments. Between each audio or video segment within the content package 525 advertisement segments may be placed. In the example of Figure 5, segment 1 (530) contains an audio segment; segment 2 (540) contains an audio segment; segment 3 (550) contains a video segment; and segment n (560) contains a video segment. In an exemplary embodiment, each content segment begins with the unique identifier of the content segment placed therein. However, it will be appreciated that the present invention does not require any specific format for the content package or playback program 525, and in fact, many varied formats will also work with various embodiments of the present invention. Each advertisement also has a header (not shown) with a unique identifier placed therein. Segment 1 (530) through Segment n comprise package content 525.

Figure 6 illustrates the operation of client application 130 within client platform 120 of an exemplary embodiment of the present invention. The aspect of the invention illustrated in Figure 6 pertains to downloading information to and uploading information from the playback device 155. At step 600, the client application 130 checks to see if it is time to receive a scheduled download, and if so, control proceeds to step 620. If not, at step 610, the client application 130 checks to see if the user has requested a demand download. If not, control proceeds to step 630. At step 620, the client application 130 connects to the server application 150 and passes on the user's name. The server application 150 downloads the playback program or content package to the client application 130. If a content package is not prepared at the mobile-content server 135, e.g. the user has initiated a demand download, the mobile-content server 135 will prepare the content package and then download it to the client application 130. After a content package has been downloaded, at step 630, the client application 130 monitors to see if the playback device 155 is linked to the client platform 120. If not, control returns to step 600.

If a playback device 155 is linked to the client platform 120, control proceeds to step 640 where the content package is downloaded to the playback device. After completing the download, at step 650, the client application 130 receives or initiates the upload of any response files that are present within the playback device 155. The client application 130 then uploads the response information to the server application 150 at step 660.

Those skilled in the art will also appreciate that current and ongoing developments in cellular and wireless communications technology enable various embodiments of the playback device 155 to be in virtually constant communication with the client platform 120 or the mobile-content server 135 (depending on the embodiment). Thus, utilizing wireless communications technology, the playback device 155 can receive additional downloads or

provide the uploads of response files either while the playback device is in use or idle. Thus, the present invention may be used within a system for providing real-time playback and responses.

The playback device 155 includes functionality to control the storage of the playback program, playback of the playback program, and store the responses. In an exemplary embodiment of the present invention this functionality of the playback device includes features that allow the playback program to be played, stopped, rewound, or fast forwarded. In addition, the software within the playback device 155 may allow for a next content segment and previous content segment feature so that users may easily move from content segment to content segment within the content package. In the preferred embodiment of the invention, the playback device 155 features a single response button for ease of use. When the response button is pushed, the unique identifier of the currently active content segment is recorded in a response file within the playback device 155 that will later be uploaded to the mobile-content server 135 either directly from the playback device 155 or via the client platform 120. Alternative embodiments of the present invention may include multiple buttons, voice detection, and any other means of detecting a response from the user, so that content providers may offer multiple responses for a given piece of content.

As previously described, the playback device 155 may include the capability of composing the playback program. An exemplary playback device 155 providing this capability may include the ability to receive and store content segments and then allow a user to listen to portions of the content segments and select or reject the content segments for the playback program.

From the foregoing description, it will be appreciated that the present invention describes a method and a system for implementing a closed loop response architecture in electronic commerce. The present invention has been described in relation to particular embodiments which are intended in all

respects to be illustrative rather than restrictive. Alternative embodiments will become apparent to those skilled in the art to which the present invention pertains without departing from its spirit and scope. Accordingly, the scope of the present invention is described by the appended claims and supported by the

5 foregoing description.

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## CLAIMS

What is claimed is:

1. A closed loop system for delivering information obtained from an information content source to a playback device, comprising:
  - a mobile-content server comprising:
    - a website interconnected to the information content source, operating on the mobile-content server and available for access by a user;
    - a database for storing, among other things, user information;
  - and
  - a server application operating on the mobile-content server and enabling the mobile-content server to:
    - retrieve the user information from the database;
    - obtain content segments from the information content source;
    - create a content package including at least one content segment;
    - deliver the content package to a client platform; and
    - receive response information from the client platform, the response information being associated with at least one content segment; and
  - the client platform comprising:
    - a web browser for interacting with the website operating on the mobile-content server; and

a client application operating on the client platform and  
enabling the client platform to:  
download the content package from the mobile-  
content server to the playback device;  
receive response information from the playback  
device; and  
deliver the response information to the mobile-content  
server.

2. The closed loop system of claim 1, wherein the server application  
operating on the mobile-content server, further enables the mobile-content  
server to convert information obtained in a textual data format from the  
information content source into an audio format.

3. The closed loop system of claim 1 wherein the mobile-content  
server further comprises an advertising database for storing advertisement  
segments.

4. The closed loop system of claim 3 wherein the server application  
creates the content package by aggregating content segments and placing  
advertisement segments from the advertising database juxtaposed between each  
respective non-advertising content segment.

5. The closed loop system of claim 4 wherein the server application  
selects the advertisement segments from the advertising database based, at least  
in part, on the user information.

6. The closed loop system of claim 1 wherein the server application assigns a unique identifier to each content segment and maintains a database of unique identifiers and associated content segments.

7. The closed loop system of claim 1 wherein user information comprises name, company, email address, shipping address, delivery address, and credit card information of the user.

8. The closed loop system of claim 1 wherein user information includes preference information comprising specific content and content categories.

9. The closed loop system of claim 1 wherein the user information includes scheduling information and the server application retrieves information from an information content source and creates the content package based on the scheduling information.

10. The closed loop system of claim 1 wherein the user information includes scheduling information and the server application delivers the content package to the client platform based on the scheduling information.

11. The closed loop system of claim 1 wherein the client platform delivers the content package based on a user's request generated at the client platform.

12. The closed loop system of claim 1 wherein at least one of the content segments includes textual data.

13. The closed loop system of claim 1 wherein at least one of the content segments includes audio data.
14. The closed loop system of claim 1 wherein at least one of the content segments includes video data.
15. The closed loop system of claim 1 wherein the mobile-content server and the client platform are included within a single computer system.

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16. An information gathering, delivery and playback system for providing custom information, including directed advertising, to a playback device, the information being obtained from an information source, the system comprising:

a mobile-content server communicatively coupled to the information source;

a client platform, communicatively coupleable to the mobile-content server and the playback device;

the mobile-content server being operative to:

receive a request for custom information from the client platform;

gather information from the information source in accordance with the received request for custom information;

deliver the custom information to the client platform;

the client platform being operative to deliver the custom information to the playback device when the playback device is accessible by the client platform.

17. The system of claim 16 wherein the client platform is further operative to receive response information from the playback device and provide the response information to the mobile-content server, the response information being included as part of the request for custom information.

18. The system of claim 16, wherein the custom information includes electronic mail messages.

19. The system of claim 16, wherein the custom information includes news stories.

20. The system of claim 16, wherein the custom information includes musical performances.

21. The system of claim 16, wherein the custom information includes recorded music.

22. The system of claim 16, wherein the custom information includes sporting event broadcasts.

23. The system of claim 16, wherein the custom information includes radio broadcasts.

24. The system of claim 16, wherein the custom information includes weather information.

25. The system of claim 16, wherein the custom information includes financial information.

26. The system of claim 16, wherein the custom information source is a website accessible through the Internet.

27. The system of claim 16, wherein the custom information source is a recorded media playback source.

28. An information gathering, delivery and playback device for providing user discernible custom information and directed advertising information, both being obtained from at least one information source, the playback device comprising:

an information source interface;

a memory storage unit;

a processing unit coupled to the memory storage unit and the information source interface, the processing unit, in response to instructions stored in the memory storage unit, being operative to:

access the information source over the information source interface;

extract custom information from the information source based on preference information stored in the memory storage unit;

receive directed advertising information from the information source; and

convert the custom information and advertising information into a format suitable for being played back in a user discernible manner.

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29. The device of claim 28 wherein at least a subset of the custom information and advertising information received from the information source is received as raw information and the processing unit is operative to convert the subset of custom information and advertising information by:

converting the raw information into one or more content segments;

and

combining the content segments to generate a content package.

30. The device of claim 28 wherein the custom information is received from the information source in the form of one or more content segments and the processing unit is operative to convert the custom information and advertising information by combining the content segments to generate a content package.

31. The device of claim 28 wherein the custom information and advertising information is received from the information source in the form of a content package, and the processing unit is operative to convert the custom information and the advertising information by storing the content package in the memory storage unit.

32. The device of claim 28 wherein the information source is an electronic media storage device.

33. A method for providing directed information, including advertising and non-advertising content, to a playback device based on a closed loop operation, the method comprising the steps of:

receiving user information;

obtaining directed information from one or more information sources based at least in part on the user information;

formatting the directed information into a content package, the content package including one or more content segments;

assigning a unique identifier to each content segment within the content package;

delivering the content package along with the unique identifier for each content segment of the content package to the playback device; and

receiving response information from the playback device, the response information including the unique identifier of the content segment associated with the response.

34. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the steps of:

parsing the user information to obtain a schedule; and

accessing an information source to obtain information in accordance with the schedule.

35. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the steps of:

parsing the user information to obtain a search term;  
searching the Internet based on the search term to identify an  
information source containing information related to the search term; and  
initiating the download of the information related to the search  
term.

36. The method of claim 33, wherein the step of obtaining directed  
information from one or more information sources comprises the steps of:

parsing the user information to obtain a search term;  
searching the Internet based on the search term to identify an  
information source containing information, in a raw data format, related to the  
search term; and  
initiating the download of the information related to the search  
term.

37. The method of claim 35, wherein the step of formatting the  
information into a content package comprises the step of converting the  
information from the raw data format into one or more content segments.

38. The method of claim 33, wherein the step of obtaining directed  
information from one or more information sources comprises the steps of:  
parsing the user information to obtain a search term;  
searching the Internet based on the search term to identify an  
information source containing information, in the format of one or more content  
segments, related to the search term; and

initiating the download of the information related to the search term.

39. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the steps of:

- parsing the user information to identify the directed information to be obtained;
- identifying an Internet accessible address of an information source containing the directed information in the format of one or more content segments; and
- initiating the download of the directed information.

40. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the steps of:

- parsing the user information to identify the directed information to be obtained;
- identifying an Internet accessible address of an information source containing the desired information in a raw data format; and
- initiating the download of the desired information.

41. The method of claim 39, wherein the step of formatting the information into a content package comprises the step of converting the information from the raw data format into one or more content segments.

42. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the steps of:

- parsing the user information to identify the directed information to be obtained;
- identifying an Internet accessible address of an information source containing the desired information in the format of a content package; and
- initiating the download of the desired information.

43. The method of claim 33, wherein the step of obtaining directed information from one or more information sources comprises the step of obtaining information based at least in part on the response information.

44. The method of claim 33, wherein the step of delivering the content package obtaining directed information from one or more information sources comprises the steps of:

- parsing the user information to obtain a delivery schedule; and
- delivering the content package in accordance with the delivery schedule.

45. A mobile application server comprising:

a website accessible to a user for inputting user information comprising a user name, profile information, preference information, and scheduling information;

a user database for storing the user information; and

a server application for retrieving the preference information, retrieving web content from a content source, creating information content segments for the user based at least in part on the preference information and the web content, creating a content package, and delivering the content package to a playback device, said server application further functional to receive response information from the playback device and initiate actions based on the response information.

46. The mobile application server of claim 45 wherein the server application is further functional to convert textual data to audio data.

47. The mobile application server of claim 45 wherein the mobile application server further comprises an advertising database for storing advertisement content segments that include audio advertisements.

48. The mobile application server of claim 47 wherein the server application creates the content package by aggregating information content segments and advertisement content segments juxtaposed between each information content segment.

49. The mobile application server of claim 48 wherein the server application selects the advertisement content segments for placement based at least in part on the user information.

50. The mobile application server of claim 45 wherein the server application assigns a unique identifier to each information content segment and maintains a database of unique identifiers and associated information content segment.

51. The mobile application server of claim 45 wherein the server application assigns a unique identifier to each advertisement content segment and stores that unique identifier in the advertisement database associated with the advertisement content segments.

52. The mobile application server of claim 45 wherein profile information comprises the company, email address, shipping address, delivery address, and credit card information of a user.

53. The mobile application server of claim 45 wherein preference information includes desired content and content categories.

54. The mobile application server of claim 45 wherein the server application retrieves web content, creates information content segments and creates content packages based on the scheduling information of a user.

55. The mobile application server of claim 45 wherein the web content comprises textual, audio and video data.

56. A method of delivering content and receiving responses to the content, wherein the content includes web based information, the method comprising the steps of:

aggregating a content package, the content package including at least one content segment;

delivering the content package to a playback device;

receiving a response from the playback device, the response being associated with a particular content segment; and

initiating actions based on the responses.

57. The method of claim 56 wherein the step of aggregating a content package further comprises the step of inserting at least one advertising content segment into the content package.

58. The method of claim 57 wherein the step of inserting an advertising content segment further comprises the steps of:

examining a user's profile information; and

selecting and advertising content segment based at least in part on the user's profile information.

59. The method of claim 58 further comprising the step of:

crediting the user with points as a function of the information that the user supplies in the user's profile information.

60. The method of claim 59 further comprising the step of:

redeeming the user's points for cash.

61. The method of claim 60 further comprising the step of:  
redeeming the user's points for discounts with advertisers.

62. The method of claim 56 wherein the step of aggregating a content package further comprises the steps of:

examining a user's preference information; and  
gathering web based information as content segments based, at least in part, on the user's preference information.

63. The method of claim 56 wherein the step of delivering the content package to a playback device further comprises the step of examining a user's schedule information and delivering the content package to the user based, at least in part, on that schedule information.

64. The method of claim 56 wherein the step of delivering the content package to a playback device further comprises the step of receiving a content package delivery request from the playback device and downloading the content package in response to said request.

65. A method of generating personalized content packages for delivery to and playback on a playback device, the content packages including advertising content segments and non-advertising content segments, comprising the steps of:

receiving user profile information for a particular user;

storing the user profile information;

receiving advertisement content segments from at least one advertiser, the advertising content segment including target profile information;

storing the advertisement content segments along with the target profile information;

selecting the advertisement content segments for a particular user based, at least in part, by comparing the target profile information and the user profile information; and

inserting the selected advertisement content segments into a content package to be downloaded to the playback device.

66. The method of claim 65, wherein the user profile information includes user preference information, further comprising the step of inserting non-advertisement content segments based on the user's preference information.

67. The method of claim 66, wherein the user preference information includes at least one category selection, and the step of inserting non-advertisement content segments further comprises inserting non-advertisement segments based on the category selections.

68. The method of claim 65 further comprising the step of receiving response information from the playback device and wherein the step of selecting the advertisement content segments further comprises the step of selecting the advertisement content segments based, at least in part, on the response information.

69. The method of claim 63 wherein the step of receiving advertisement content segments from at least one advertiser further comprises the steps of:

permitting advertisers to access a website;

receiving advertisement content segments from advertisers when the advertisers initiate an upload of the advertisement content segments.

70. The method of claim 65 wherein the step of receiving advertisement content segments from at least one advertiser further comprises the steps of:

permitting advertisers to access a website;

receiving advertisement content segments from advertisers when the advertisers initiate an upload of the advertisement content segments;

charging a fee to the advertisers based on the type of responses that the advertisement can support.

71. The method of claim 65 further comprising the step of:

crediting the user with points as a function of the information that the user supplies in the user's profile information.

72. The method of claim 71 further comprising the step of:  
redeeming the user's points for cash.
73. The method of claim 71 further comprising the step of:  
redeeming the user's points for discounts with advertisers.

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**A SYSTEM FOR AND METHOD OF IMPLEMENTING  
A CLOSED LOOP RESPONSE ARCHITECTURE  
FOR ELECTRONIC COMMERCE**

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**ABSTRACT OF THE INVENTION**

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A closed loop system for and method of delivering information obtained from an information content source to a playback device. The system comprises a mobile-content server and a client platform. The mobile content server comprises a web site, a database, and a server application. The web site is interconnected to the information content and is available for access by a user. The database stores, among other things, user information. The server application operates on the mobile-content server and enables the mobile-content server to: retrieve the user information from the database; retrieve content segments from the information content source; create content packages including at least one content segment; deliver the content package to the client platform; and receive response information from the client platform where the response information is associated with at least one content segment.

The client platform comprises a web browser for interacting with the website operating on the mobile-content server and a client application. The client application operates on the client platform and enables the client platform to: download the content package from the mobile-content server to the playback device; receive response information from the playback device; and deliver the response information to the mobile-content server.

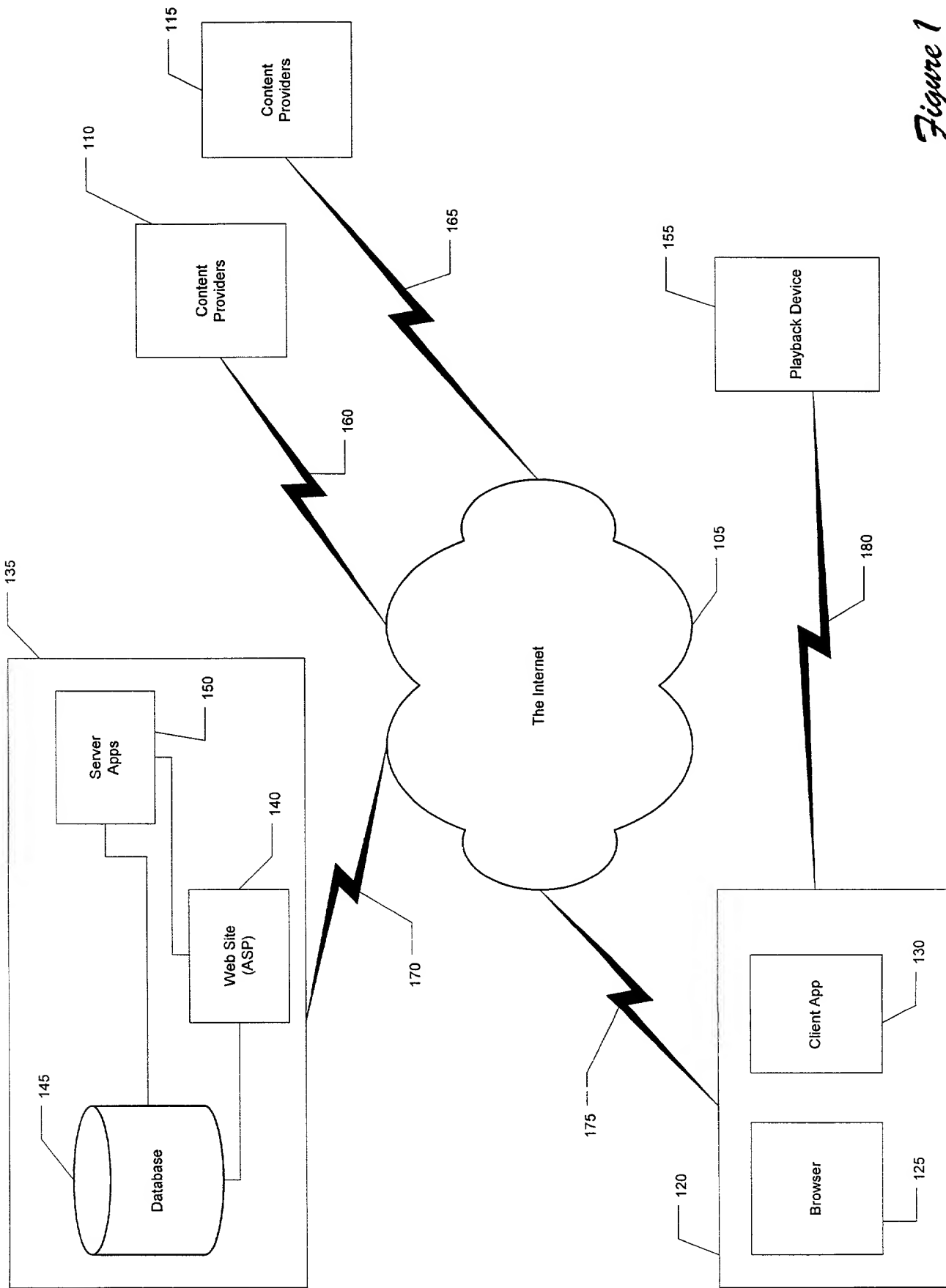


Figure 1

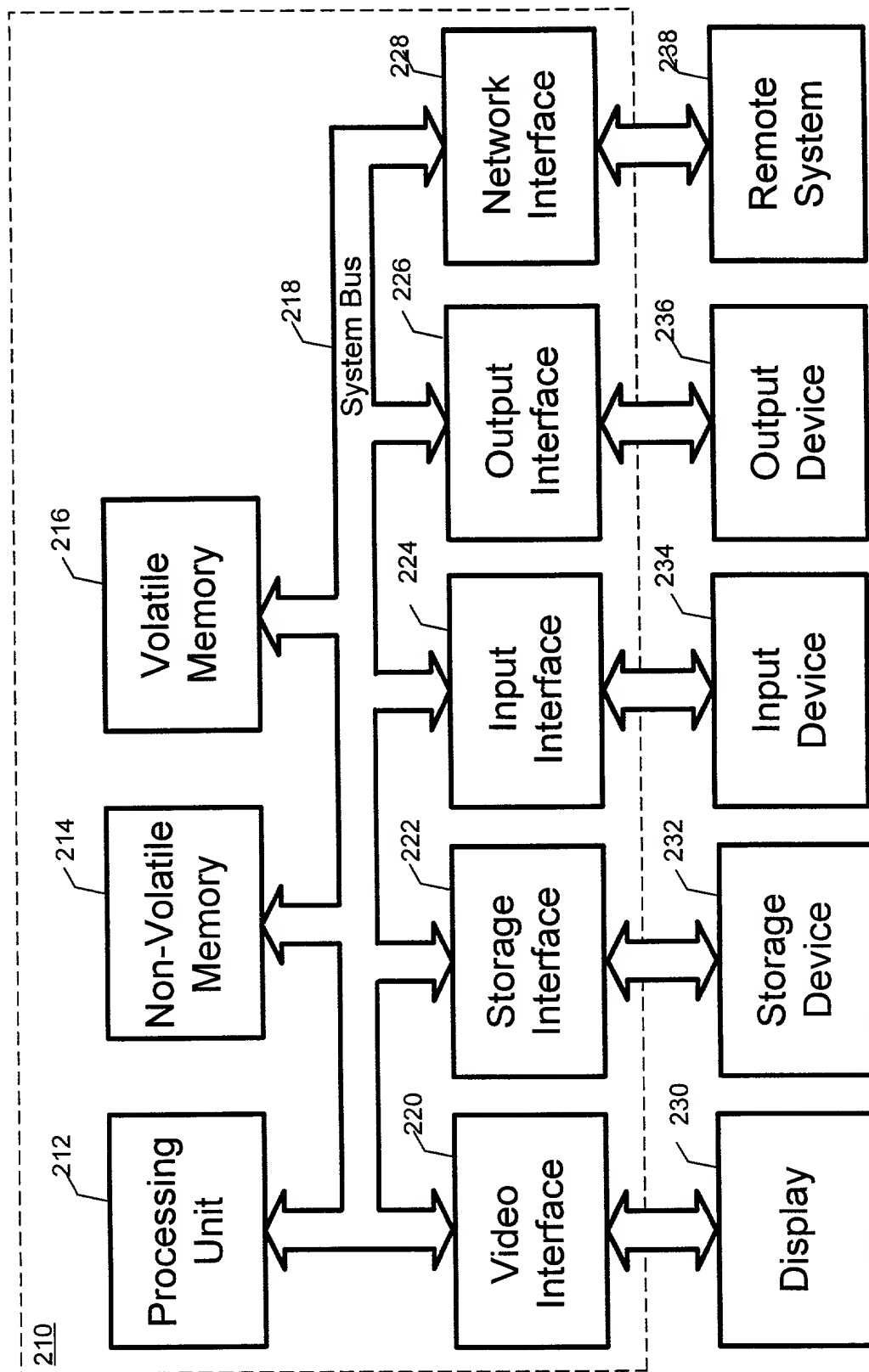


Figure 2

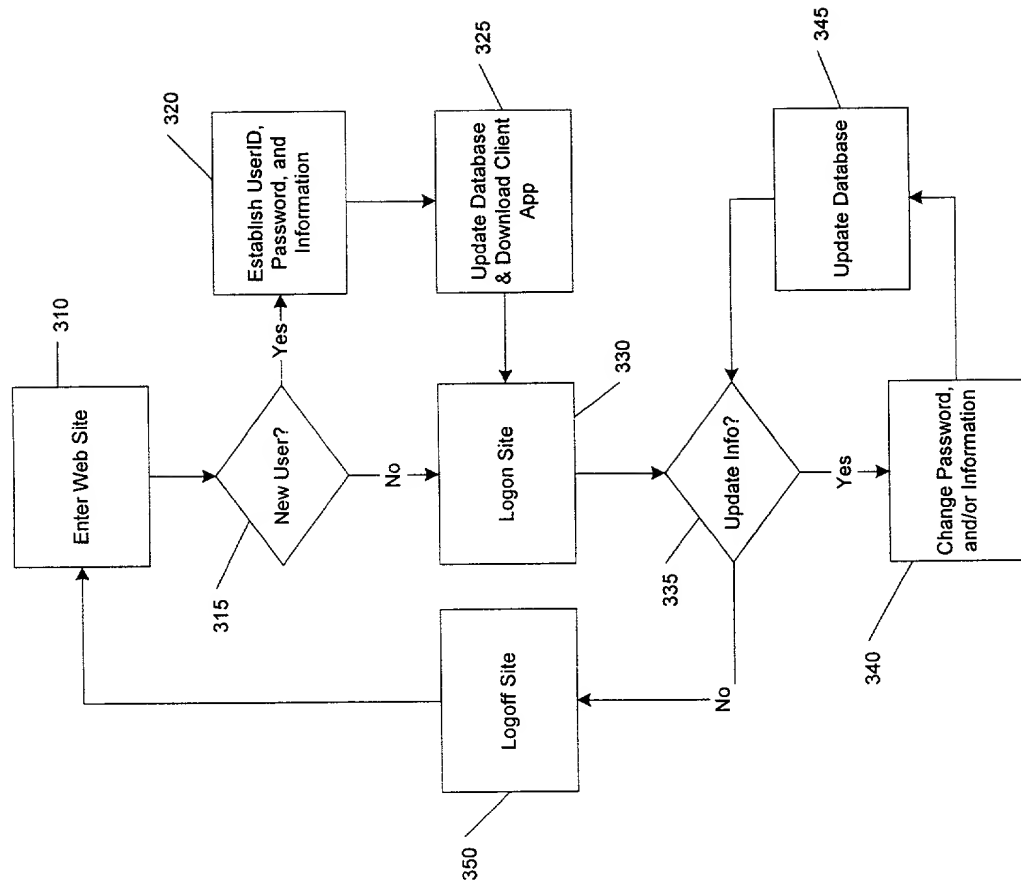


Figure 3

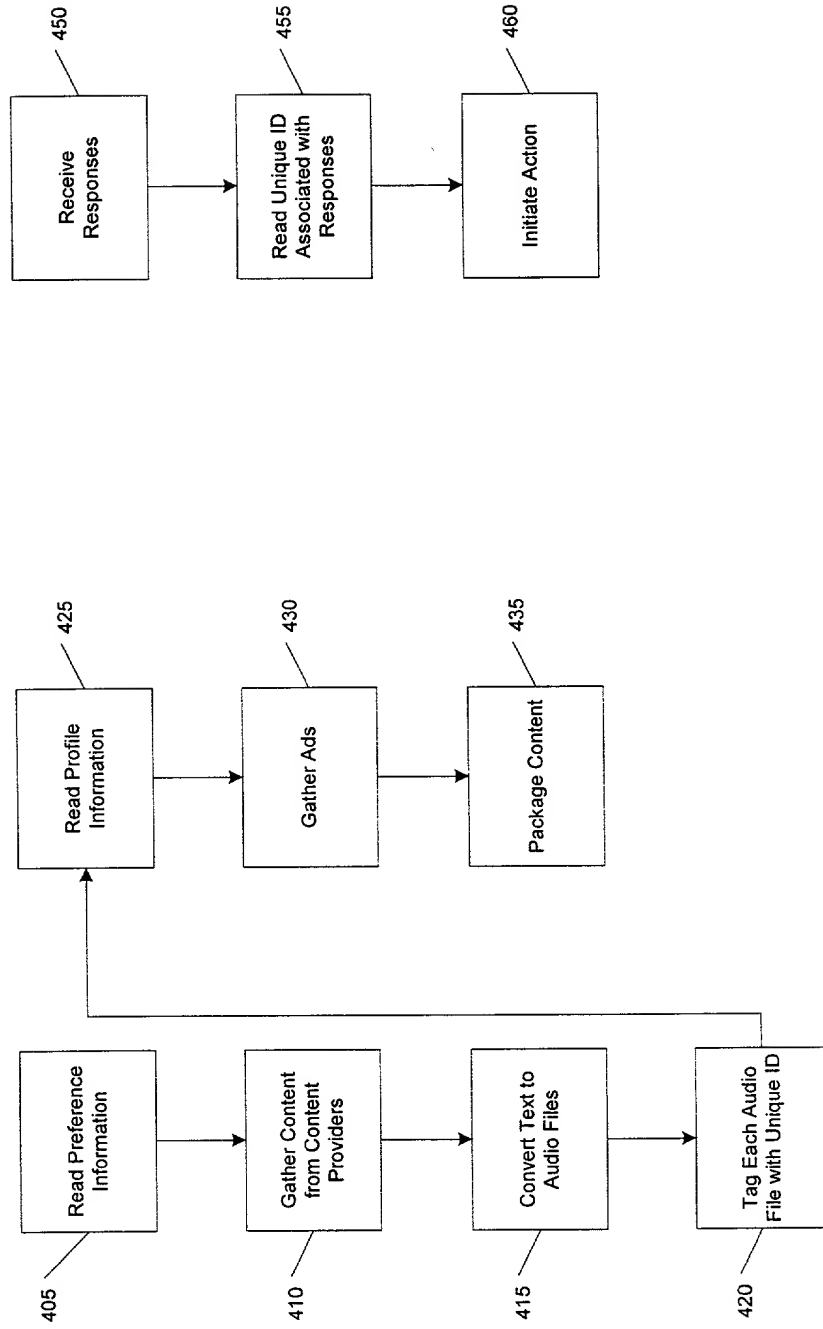


Figure 4

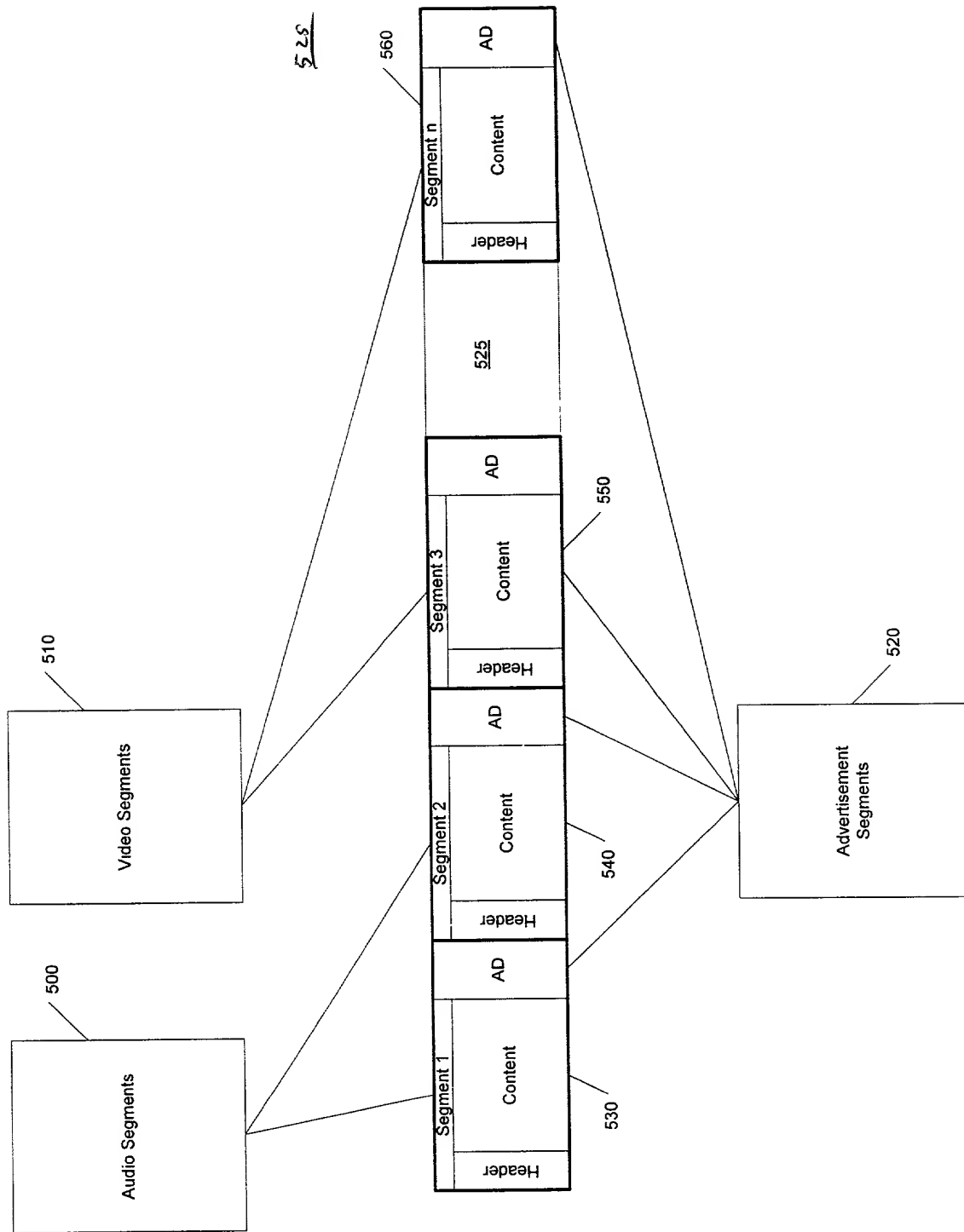


Figure 5

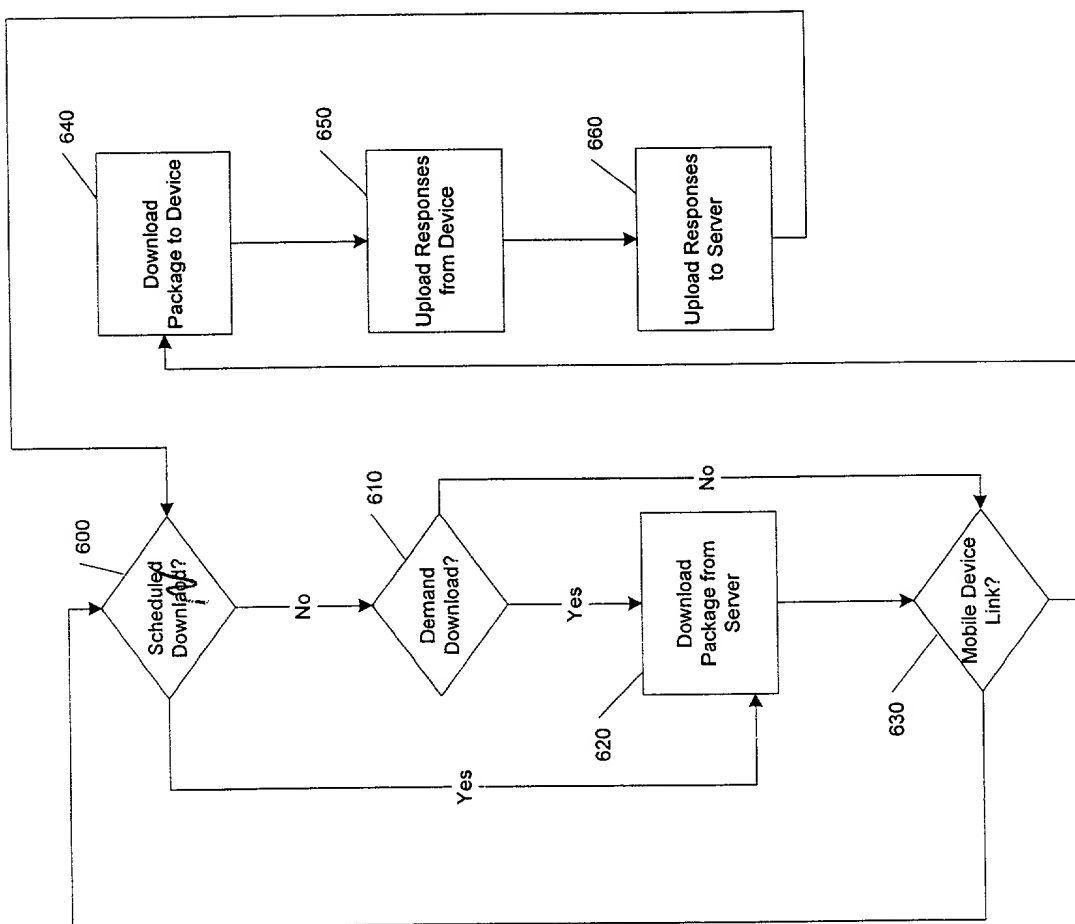


Figure 6

**DECLARATION AND POWER OF ATTORNEY**

Attorney's Docket No 9297.99239 12GO1

In Re Application of: Sam Johnson, Eric A. Toops and Fred Tanzella

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe I am an original, joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **A SYSTEM FOR AND METHOD OF IMPLEMENTING A CLOSED LOOP RESPONSE ARCHITECTURE FOR ELECTRONIC COMMERCE**, the specification of which:

XX is attached hereto.

\_\_\_\_\_ was filed on \_\_\_\_\_ as Application No. \_\_\_\_\_ (if applicable) and was amended on \_\_\_\_\_.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I do not know and do not believe that the same was ever known or used by others in the United States of America before our invention thereof, or patented or described in any printed publication in any country before our invention thereof or more than one year prior to the date of this application. I further state that the invention was not in public use or on sale in the United States of America more than one year prior to the date of this application. *I understand that I have a duty of candor and good faith toward the Patent and Trademark Office*, and I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, §1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, §119 (a)-(d) of the foreign application(s) for patent or inventor's certificate listed below, and have also identified below any foreign application for patent or inventor's certificate disclosing subject matter in common with the above-identified specification and having a filing date before that of the application on which priority is claimed:

Application No.	Country	Filing Date	Priority Claimed Under 35 USC §119
None			Yes _____ No _____

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter disclosed and claimed in the present application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code §112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application:

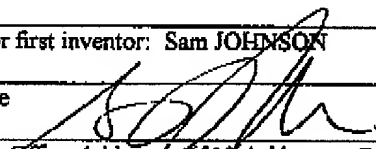
Application Serial No.	Filing Date	Status: patented, pending, abandoned
None		

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statement were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

**POWER OF ATTORNEY:** The following attorneys are hereby appointed to prosecute this application and transact all business in the Patent and Trademark Office connected therewith: GREGORY S. SMITH, REG. NO. 40,819; R. STEVAN COURSEY, REG. NO. 39,949; JOEL S. GOLDMAN, REG. NO. 29,070; GERALD R. BOSS, REG. NO. 36,460; JAMES D. WRIGHT, REG. NO. P43,291; ROGER S. WILLIAMS, REG. NO. P43,273; KENNETH SOUTHALL, REG. NO. 38,315; WILLIAM B. DYER III, REG. NO. 41,725; TODD MITCHEM, REG. NO. 40,731 and BROOK LAFFERTY, REG. NO. 39,259

Send correspondence to: **TROUTMAN SANDERS, LLP**  
600 Peachtree Street, N.E., Suite 5200  
Atlanta, Georgia 30308-2216

Direct telephone calls at (404) 885-3354 to:  
Gregory Scott Smith

Full name of sole or first inventor: Sam JOHNSON	Citizenship: USA
Inventor's signature 	Date: 8/12/99
Residence and Post Office Address: 6510 Ashbourne Court, Suwanee, Georgia 30024	

Page 2 of 3

**DECLARATION AND POWER OF ATTORNEY**

Attorney's Docket No 9297.99239 12601

In Re Application of: Sam Johnson, Eric A. Toops and Fred Tanzella

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name. I believe I am a joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **A SYSTEM FOR AND METHOD OF IMPLEMENTING A CLOSED LOOP RESPONSE ARCHITECTURE FOR ELECTRONIC COMMERCE**, the specification of which:

XX is attached hereto.

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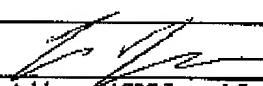
Application Serial No.	Filing Date	Status: patented, pending, abandoned
None		

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statement were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

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600 Peachtree Street, N.E., Suite 5200  
Atlanta, Georgia 30308-2216

Direct telephone calls at (404) 885-3354 to:  
Gregory Scott Smith

Full name of second inventor: Eric A. TOOPS	Citizenship: USA
Inventor's signature 	Date: 8-12-99
Residence and Post Office Address: 1727 Laurel Song Trail, Decula, Georgia 30019	

Page 3 of 3

**DECLARATION AND POWER OF ATTORNEY**

Attorney's Docket No 9297.99239 I2GO1

In Re Application of: Sam Johnson, Eric A. Toops and Fred Tanzella

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My residence, post office address and citizenship are as stated below next to my name. I believe I am a joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled **A SYSTEM FOR AND METHOD OF IMPLEMENTING A CLOSED LOOP RESPONSE ARCHITECTURE FOR ELECTRONIC COMMERCE**, the specification of which:

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<u>Application No.</u>	<u>Country</u>	<u>Filing Date</u>	<u>Priority Claimed Under 35 USC §119</u>
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None

Yes \_\_\_\_\_ No \_\_\_\_\_

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<u>Application Serial No.</u>	<u>Filing Date</u>	<u>Status: patented, pending, abandoned</u>
-------------------------------	--------------------	---

None

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issuing thereon.

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Gregory Scott Smith

Full name of third inventor: Fred TANZELLA

Citizenship: USA

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Residence and Post Office Address: 2330 Armand Road, Atlanta, GA 30324